

ABSTRACT

A RECIPROCATING SAW

A reciprocating saw comprising a cutting arrangement; a rotatable drive shaft with a drive shaft axis, wherein the drive shaft comprises a first eccentric; a timing actuator capable of performing reciprocating motion, wherein the timing actuator is associated with the cutting arrangement so that, in use, the reciprocating motion of the timing actuator is transmitted to the cutting arrangement; and a counterweight capable of performing reciprocating motion, wherein the counterweight is coupled to the first eccentric so that rotation of the first eccentric drives the reciprocating motion of the counterweight, wherein the reciprocating motion of the counterweight is out of phase with the reciprocating motion of the cutting arrangement, characterised in that the drive shaft comprises a second eccentric, wherein the second eccentric is associated with the timing actuator so that, in use, the rotation of the second eccentric controls the reciprocating motion of the timing actuator.

Figure 3